# QHIN Conformance Testing Process: User Guide

For the Sequoia Interoperability Testing Platform



### Version History

Version	Description of Change	Version Date
1.0	Initial Publication	May 31, 2023



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## **1** INTRODUCTION

### **1.1** Purpose of Document

This document describes how to use the Sequoia Interoperability Testing Platform (ITP) tools and run the test cases for the Qualified Health Information Network (QHIN) Conformance Testing Process. This is limited to the <u>QHIN Technical Framework (QTF) Version 1</u>; the information outlined in the Common Agreement, and related QHIN Testing Process document(s).

Changes to the QHIN Testing Process documents may be updated in accordance with the QTF, which may be updated in accordance with changes to industry standards and specifications.



### **1.2** Prerequisites – Getting Started

#### 1.2.1 Applying to the Conformance Testing Process

To begin the QHIN Conformance Testing Process you will be required to complete the <u>QHIN</u> <u>Application Materials</u>. Once your application has been approved, your organization will be referred to testing and users will be provisioned to the tooling. The Sequoia Project testing team will schedule a testing kick off call to orient your users on how to navigate the tooling components to complete testing.

If additional users need to be added, please send their name, email, and phone number to <u>ahintesting@sequoiaproject.org</u>.

Username:	
lbright	
Password:	
•••••	
Remember	Me
Creat	unt
For our	ord?
Porgot your	password?
For security re- web browser w	asons, please log out and exit your when you are done accessing services

DO NOT USE THE "CREATE AN ACCOUNT" FEATURE TO ADD NEW USERS!

#### 1.2.2 Activating User Accounts

Sequoia staff will create your organization's accounts and the tooling will send automated activation emails to new users. Their user ID will be contained in the email. New Users must validate their email address by clicking the link in the activation email.

#### 1.2.3 Password Resets

Passwords can be reset by clicking the "Forgot your password?" link on the login page.



Username:	
lbright	
Password:	
•••••	
Remember	Me
	LOGIN
O Create an a	scount
Porgot your	password?
Forgot your	password?
For security re	asons, please log out and exit your
web browser v	when you are done accessing service

An email will be sent to the users registered email address from <u>no-</u> <u>reply@validation.sequoiaproject.org</u> with the subject "Gazelle-Password assistance". Click on the link in the email to complete the password reset process.

The following browsers are supported for use of Gazelle:

- Firefox
- Chrome
- Safari



## **2** GAZELLE SECURITY SUITE

Security tests are done using a tool called the Gazelle Security Suite, which can be accessed by going to <u>https://validation.sequoiaproject.org/</u> and selecting the Gazelle Security Suite link.

Ste			Interoperability Testing Platform (ITP) A joint collaboration with IHE International, IHE Services, and NIST	
	Test tools	Version	Description	
(	Gazelle Security Suite	6.3.1	TLS/Certificate debugging, Security Tests, PKI, TLS Simulators, syslog, and ATNA Questionnaire	
	PationtManager	9.16.3	Tools for QHIN Patient Discovery (ITI-55)	
	NIST Toolkit	7.7.10a	Tools for QHIN Document Query (ITI-38), Document Retrieve (ITI-39), and Message Delivery (ITI-80)	
	EVS Client	5.14.4	External Validation tool services	
	Support Tools	Version	Description	
	Gazelle Test Management	6.2.3	The Gazelle Test Management Test Bed: Administrative Use Only	
	Assertion Manager Gui	4.2.2	Assertion coverage management: Administrative Use Only	
	Utilities	Version	Description	
	SSO login		SSO login	

The list of tests that can be run is accessed through the menu items XUA -> X-Service Provider tests -> Test Cases.

Gazelle Security Suite	
PKI 👻 TLS / SSL 👻 Audit Trail 👻	XUA -
Gazelle Security	<ul> <li>Class documentation</li> <li>Constraint documentation</li> </ul>
OVERVIEW The GAZELLE ATNA Tool gathers several	Constraint administration X-Service Provider tests Test cases Test mistances Ures:
<ul> <li>A Public Key Infrastructure, to shar</li> <li>A TLS simulator that will simulate of The ATNA questionnaire.</li> </ul>	e trusted certificates and associated Ancillary transactions lients and servers that can establish
DIGITAL CERTIFICATES for Conformity	Assessment Testing :
The CA certificate is available here.	
TEST YOUR TLS IMPLEMENTATION:	
TLS SERVER SIMULATORS: To c         HTTPS server ( <domain_or_ (<domain_or_<="" server="" syslog="" th=""><th>heck your SUT as a <b>consumer/client</b>, the tool will act as a server. You may connect to : _IP&gt;:20011) IP&gt;:20009) P&gt;:20070)</th></domain_or_>	heck your SUT as a <b>consumer/client</b> , the tool will act as a server. You may connect to : _IP>:20011) IP>:20009) P>:20070)
TLS CLIENT SIMULATORS: To ch	eck your SUT as a provider/server, the tool will act as a client. You can start a connection from these TLS client simulator
Edit home content	



From the list of test cases, find the test you want to run and click the green arrow to the right of the screen to create an instance of that test.

							i
Service Pr	ovider test cases						
Available test cases							
Keyword 🔺	Description	Expected result	Last modifier	Last changed 🗢	Actio	n	
							1
MAQD-R-0003.000	Handle missing wsse:Security element	UNSPECIFIED	aberge	6/16/17 4:55:22 PM (EDT GMT-0400)		1 0	
MAQD-R-0003.000 MAQD-R-0003.101	Handle missing wsse:Security element Handle missing Security/Timestamp element	UNSPECIFIED	aberge	6/16/17 4:55:22 PM (EDT GMT-0400) 6/16/17 4:55:22 PM (EDT GMT-0400)		20	Ŵ
MAQD-R-0003.000 MAQD-R-0003.101 MAQD-R-0003.102	Handle missing wsse:Security element Handle missing Security/Timestamp element Handle an expired Security/Timestamp	UNSPECIFIED UNSPECIFIED UNSPECIFIED	aberge aberge aberge	6/16/17 4:55:22 PM (EDT GMT-0400) 6/16/17 4:55:22 PM (EDT GMT-0400) 6/16/17 4:55:22 PM (EDT GMT-0400)			
MAQD-R-0003.000 MAQD-R-0003.101 MAQD-R-0003.102 MAQD-R-0003.103	Handle missing wsse:Security element Handle missing Security/Timestamp element Handle an expired Security/Timestamp Handle a Security/Timestamp in the future	UNSPECIFIED UNSPECIFIED UNSPECIFIED UNSPECIFIED	aberge aberge aberge aberge	6/16/17 4:55:22 PM (EDT GMT-0400) 6/16/17 4:55:22 PM (EDT GMT-0400) 6/16/17 4:55:22 PM (EDT GMT-0400) 6/16/17 4:55:22 PM (EDT GMT-0400)			
MAQD-R-0003.000 MAQD-R-0003.101 MAQD-R-0003.102 MAQD-R-0003.103 MAQD-R-0003.201	Handle missing wsse:Security element Handle missing Security/Timestamp element Handle an expired Security/Timestamp Handle a Security/Timestamp in the future Handle missing MessageID element	UNSPECIFIED UNSPECIFIED UNSPECIFIED UNSPECIFIED UNSPECIFIED	aberge aberge aberge aberge aberge	6/16/17 4:55:22 PM (EDT GMT-0400) 6/16/17 4:55:22 PM (EDT GMT-0400) 6/16/17 4:55:22 PM (EDT GMT-0400) 6/16/17 4:55:22 PM (EDT GMT-0400) 6/16/17 4:55:22 PM (EDT GMT-0400)			

Inside the test instance, type your system's Patient Discovery endpoint address into the text box labeled "Endpoint to test". Select Patient Discovery from the Transaction drop-down menu, and click "Launch Test" to run the test.

Gazelle Security Suite	
PKI 👻 TLS / SSL 👻	Audit Trail - XUA -
Test instand	ce
Test case details	
Test case Description Expected result	MAQD-R-0003.102 Handle an expired Security/Timestamp UNSPECIFIED
Configuration	Padasista tak
Back to ist Laur	Transaction Please select Please select Please select Patient Discovery Overy Document

The Gazelle Security Suite will send a test message to your system and display the message that was sent and the response.



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Gazelle Security Suite							
						Help I	
Test instance	e #5128						
Test metadata							
Fest case Permanent Link Netled endpoint Ancillary transaction Execution date Username	MACID: + 0003.000 #5128 https://ambation.sequoiaproject.c PD - Patient Discovery 5/2/23 11:09:29 AM (EDT GMT-0- lbright	rg:14430/PAMSimula	ttor-ejb/RespondingG	ateway_Service/RespondingGatev	vay_PortType?wsdl		
Status UNKNOWN						¥	
Back to list							
Exchanged messages							
Message sent by the tool	Message received from SUT						
<pre><?xml version="1.0" enc <env:envelope xmlns:env<br=""><env:heador> <messageid http:="" www.<br="" xmlns="htt&lt;br&gt;&lt;To xmlns="><action http:="" www.<br="" xmlns="http://www.&lt;br&gt;&lt;ReplyTo xmlns="></action></messageid></env:heador></env:envelope></pre>	oding="UTF-8"?> ="http://www.w3.org/2003/05/soap- tp://www.w3.org/2005/08/addressing" in thus: wa.3.org/2005/08/addressing" en /www.w3.org/2005/08/addressing" en /www.w3.org/2005/08/addressing" en /www.w3.org/2005/08/addressing" en	anvelope"> y">um:uuid:0d5a930f //validation.sequoiapr y:mustUnderstand=	-587f-4012-8c30-1ba oject.org:14430/PAM <b>"true</b> ">urn:hl7-org:v3:	de3102d83 Simulator-ejb/RespondingGatewa PRPA_IN201305UV02:CrossGate	_Service/RespondingGateway_PortType?wsdl wayPatientDiscovery		
sandress>http://www.v	N.5. Ord/2005/06/addressind/abon/mi	About	Contact us	Issue Tracker	Copyright 2022 IHE International	E	nglish

Record the permanent link to the test to submit as your test result to your Test Manager. Remember to also record your ATNA audit log for this test to be submitted to your Test Manager by email at <u>ghintesting@sequoiaproject.org</u>.



## **3 PATIENT DISCOVERY TOOL**

Patient Discovery tests are done using a tool called the Patient Manager, which can be accessed by going to <u>https://validation.sequoiaproject.org/</u> and selecting the Patient Manager link.

St			Interoperability Testing Platform (ITP) A joint collaboration with IHE International, IHE Services, and NIST	
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	EVS Client	5.14.4	External Validation tool services	
	Support Tools	Version	Description	
	Gazelle Test Management	6.2.3	The Gazelle Test Management Test Bed: Administrative Use Only	
	Assertion Manager Gui	4.2.2	Assertion coverage management: Administrative Use Only	
	Utilities	Version	Description	
	SSO login		SSO login	

## 3.1 As an Initiating Gateway

To run Patient Discovery tests as an Initiating Gateway, configure your system to send a PD message to the Patient Manager tool, using the endpoint and Home Community ID found on the XCPD Responding Gateway page. The endpoint information can be found under the menu option XCPD -> Responding Gateway.



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Patient Manager	<b>i</b> t.
XCPD Responding Gateway	
Cross Gateway Patient Discovery (ITI-55) PRPA_IN201305U/02 PRPA_IN201305U/02 PRPA_IN201305U/02 PRPA_IN201305U/02 PRPA_IN201305U/02 MCCI_IN000002U/01 Some delay PRPA_IN201305U/02	XCPD Responding Gateway         Endpoint         https://validation.sequoiaproject.org:14430/PAMSimulator- ejb/RespondingGateway_Service/RespondingGateway_PortType?wsdl         Receiver organization OID         2.16.840.1.113883.3.7204.1.3.1.2         Home Community ID         2.16.840.1.113883.3.7204.1.3.1.2         Image: Service (Responding Gateway - Service)         Image: Service (Responding Gateway - PortType?wsdl         Receiver organization OID         2.16.840.1.113883.3.7204.1.3.1.2         Image: Service (Responding Gateway - Service)         Image: Service (Responding Gateway - PortType?wsdl         Image: Service (Responding Gateway -

Send a Patient Discovery Message with the Patient Demographics required in the test to the Gateway. The Gateway will respond with information about the matching patient. You can find the results of the test under the HL7 Messages link at the top of the screen. Click on the magnifying glass icon to see the messages for that test instance.

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essages bi	rowser	r			$\bigcirc$								
arch Criteria													C
omain	Show All			×	Simulated Actor	Show All		×	Transaction		Show All		
itiator role	Show All			×	Responder role	Show All	*	×					
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administrator has restric	cted the access to	o the messag	es. You are on	ly seeing the m	nessages sent by anon	ymous users.							
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Each will have information about that instance including timestamp, initiating and responding systems, and a permanent link to the test instance and test report, as well as the request and response messages



Patient Manager		· · · · · · · · · · · · · · · · · · ·
		Ibright/SEQUOIA 🗸
Transaction in	stance details (#1619)	
Metadata		
Timestamp: 5/2/23 1:37:50 PM (I Simulated actor: Responding Ga Domain: IT-Infraschructure Transaction: ITI-55 Infrator: 20.120.103.48 (Initiating Responder: Patternet Company Company Permanent link: https://vaildation Permanent link: https://vaildation	EDT GMT-0400) Iteway (Gateway) generating osteway) Isequoiaproject org/PatientManager/messages/messageDisplay.seam?kd=1619 Itps://validation.sequoiaproject.org/PatientManager/rest/GetReport?id=1819	
Request: PRPA_IN201305UV02	Response: PRPA_IN201306UV02	
Message metadata		
Message ID	1.3.6.1.4.1.12559.11.24.4.1.17.1.9220e89f-69b0-4d4f-b033-001eca88171d	
⊞ XML		
xml version="1.0" encodin</th <th>g="UTF6" standalone="yes"?&gt;</th> <th></th>	g="UTF6" standalone="yes"?>	

At the bottom of the request and response messages, there is a button to validate the messages. Click this to get a report on your message conformance to the standards, including any errors that will need to be remediated.

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Valid	late egain				
Validade	or of the equast has not been performed yet or is not available				
	() () () () () () () () () () () () () (				
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<	parameterList>				
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	<semanticstext>Patient.telecom</semanticstext>				
	<value use="HP" value="tel:+1-417-989-0987"></value>				
	<value use="WP" value="tel:+1-417-989-3300"></value>				
	<pre>spatientTelecom&gt;</pre>				
	vipatientAddress>				
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	<country>USA</country>				
	<streetaddressline>809 First Ave</streetaddressline>				
	<state>MO</state>				
	<value></value>				
	<pre><pre>cpatientAddress&gt;</pre></pre>				
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• error. cv	contraction prevailed 1.2.3. Virmoid 1.3.6.1.4.1.22012.40.62020 11s not a valid value of union type Viiif. (see line 21. column 62)	
error: cv	v-attribute 3: The value 'urmaid:1.3.6.1.4.1.22812.40.82020.1' of attribute 'roof' on element 'fu' is not valid with respect to its type,'' tud', (see line 21, column 62) is obtained attribute of attr	
<ul> <li>error: cv</li> </ul>	company manual resources index of the second environment of the sec	
error: cv     error: cv	ic-complex-type 4. Attribute classificate must appear on element "assignedDevice" (see the 32, column 29)	
<ul> <li>error: cv</li> </ul>	ro-complex-hype 2.4 b: The content of element [patientTelecom' is not complete. One of ("j'um:hi7-org:v3":value, "um:hi7-org:v3":semanticsText() is expected, (see line 77, column 34)	
Model Based V	talidation details	
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Summary	09 chccss 4 encos	
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HIDE : Error	s DWernings Dietos Oteports	
Test	constraint_mccimt000106UV01_deviceId	
Location	(PRPA, IA201305UV02)sendentidevice ♥ HEF restriction: k1 vior SHALL be en ISO OID, and id extension SHALL not have a value (Table O.1.1-1: Model Attitutes) [Assertion]	
Description		
Description Test	constraint_mccimt000100U/01_organizationId	

When a passing validation is achieved for both request and response, send the permanent link to your Test Manager. Remember to also record your ATNA audit log for this test. Submit results to your Test Manager by email at <u>ahintesting@sequoiaproject.org</u>.

#### 3.2 As a Responding Gateway

The test patient data will need to be pre-loaded into your system and can be found on the RCE website <u>here</u>.

Go to the SUT Configurations and make sure that your system has been set up as a known HL7v3 Responder and that the endpoint is correct. If the information is not correct, contact your Test Manager for assistance via an email to qhintesting@sequoiaproject.org.

Patient Manager		
XCPD • XUA • All patient SUT Configurations • Connectation •	HL7 messages Value Sets	
HL7v3 Responders		
Search Criteria		
	Usage Show All	
Systems under test		
Name 🔺	System name 🔺	Endpoint
e Epic	Epic	https://open-ic.epic.com/interconnect-ce-2015/wcf/epic.community/hie/xcpdrespondinggatewaysync.svc
SIMULATOR - PDQV3 Supplier	Patient Manager - PDQV3 Supplier	http://localhost.8080/PAMSimulator-ejb/PDQSupprer_Service/PDQSupplier_PortType?visdl
SIMULATOR - PIXV3 Manager	Patient Manager - PDXV3 Manager	http://localhost.8080/PAMSimulator.ejb/POManager_Service/POManager_PortType?wsdl



Go to the XCPD Initiating Gateway menu and select [ITI-55] Cross-Gateway Patient Discovery.

Patient Manager
XCPD - XUA - All patients SUT Configurations - Connectation - HL7 messages Value Sets
Initiating Gateway [ITI-55] Cross Gateway Patient Discovery
Responding Gateway Configuration and Deterred queries
XCPD Initiating Gateway
Simulator
Name
Simulator Configuration
1.3.6.1.4.1.12559.11.24.4.1.15
Organization OID

Select your system from the System under test list and then select the pre-defined query for the test you are running. The Patient Manager will populate the patient demographics needed. Click "Send Message" to run the test and send the message to your System.

KCPD Initiating Gateway		
Simulator  Anne  Simulator Configuration sender divise 16 rove 010 sender divise 18 rove 010 Organization 01	Cross Gateway Patient Discovery (01:53) PPGA, PA0203064/V02 Cross Gateway Patient Discovery (01:53) PPGA, PA0203064/V02 Cross Gateway Patient Discovery (02:ferred mode) FORM, PA0203064/V02 Steme day Steme day	System Under Test (SUT) Name Demonstration BUT Unit: Demonstration BUT Unit: Demonstration BUT Unit: Demonstration advantmercharge orgativit 0.00058esynci2.07 artificial Annotation advantmercharge o
System under fest Demon Pre-defined query Press Defemad response mode Use XUA 7	CCI PR000022U/01      Headon SUT      Subst.      Ext OD: Address      Ext OD: Addres      Ext OD: Address      Ext OD: Addres      Ext OD: Addres	•
Demographic information		
First name	Second Name	Third Name
Last name	Mother's malden name	
Alternate names (click to open)		

The system will display the test results, including the message sent, and the response.



SperdSLCor: X   & Hwelo cool: X   ⊙ NHN Autor: X   ⊙ senicore20	🗙   😳 Seach Health 🗙   🖬 Seach Health 🛪   🗰 HC2 Sandarss 🛪   🚥 Robey Septer A	x   📽 Lave Dight -  ×   ≥. Childerenter ×   ⊗ Sepond IP - ×	Index Many, X 👔 then energy: X   🔅 XDS Solid X   🕷 Websere Sol. X   🐧 Humedamps: X	😂 Context Testin: 🗙   🖷 2020   Power: 🗙   🔢 650 639 2 Lun: 🛪   👙 CONH1199-S: 🗙   🕂	- a
atient Manager	eCksplay.seem?id=18537			« ÷ U J	
					CAS Login
ransaction instar	nce details (#18537)				
Metadata					
Timestamp: 8/13/20 11:47:52 PM (CEST	GMT+0200)				
Simulated actor: Initiating Gateway					
Domain: IT-Infrasctructure					
Transaction: ITI-55					
Initiator: PatientManager (Initiating Gatev	way)				
Responder: BSCC (Responding Gateway	у)				
Permanent link: https://validation.sequoia	aproject.org/PatientManager/messages/messageDia	splay.seam?id=18537			
Permanent link to test report: https://val	Idation.sequoiaproject.org/PatientManager/rest/Get	Report?id=18537			
Request: PRPA_IN201305UV02	sponse: PRPA_IN201306UV02				
Message metadata					
Message ID 1.3.6.1.4	4.1.12559.11.24.4.1.17.1:7568				
± XML					
xml version="1.0" encoding="UTF<br <prpa_in201305uv02 7568"="" ?="" itsversion="X&lt;br&gt;&lt;id extension=" root="1.3.6.1.&lt;/td&gt;&lt;td&gt;&lt;pre&gt;'8" standalone="yes"> (ML_1.0" xmins="urn:hi7-org:v3"&gt; 4.1.12559.11.24.4.1.17.1"/&gt;</prpa_in201305uv02>					
CorontianTime value="10000040004"	About	Contact us Issue Tra	cker Copyright 2020 IHE International		English
e_CONE_1198-54si 🗠 🗈 haitestani 🗠 😣 repo	HT9F152228307_wis ^ 📴 2010Dec_C-CDAR_wisk ^ 🚳 CCDA Value Set Su_wisk	A B CCDA Value Set Sa…alax A □ MR/RCH+HE Aggs…and	^ ]] plexituri ^ ]] 2021-01-01-02,-6nt ^ ]∰ report@14529009ab	Consecut (Sami      Scorecard (Sami	Show all

As for the Initiating Gateway tests, validate the messages, and report your permanent link for your passing test to your Test Manager. Remember to also record your ATNA audit log for this test. Submit results to your Test Manager by email at <u>ghintesting@sequoiaproject.org</u>.



## 4 NIST TOOLKIT

Query for Documents, Retrieve Documents, Message Delivery, and Alternate Purpose of Use Tests are done using the NIST Toolkit which can be found by going to <u>https://validation.sequoiaproject.org</u> and selecting the "NIST Toolkit" link.

e e guo projec		Interoperability Testing Platform (ITP) A joint collaboration with IHE International, IHE Services, and NIST
Test tools	Version	Description
Gazelle Security Suite	6.3.1	TLS/Certificate debugging, Security Tests, PKI, TLS Simulators, syslog, and ATNA Questionnaire
PatientManager	9.16.3	Tools for QHIN Patient Discovery (ITI-55)
NIST Toolkit	7.7.10a	Tools for QHIN Document Query (ITI-38), Document Retrieve (ITI-39), and Message Delivery (ITI-80)
EVS Client	5.14.4	External Validation tool services
Support Tools	Version	Description
Gazelle Test Management	6.2.3	The Gazelle Test Management Test Bed: Administrative Use Only
Assertion Manager Gui	4.2.2	Assertion coverage management: Administrative Use Only
Utilities	Version	Description
SSO login		SSO login

## 4.1 XDS Toolkit Test Session Setup

Your Sequoia Project Test Manager will create a Test Session for you. The Test Session ID will be assigned by your Test Manager. Select your test session by typing the name in the text box at the top of the screen.



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x	Environment: rce	✓ Codes	Test Session:	demo01	Delete abc	123	Change Exi	it Create New	You are not signed-in. Sign In.
Toolkit									
Home Toolkit configuration System Configurations Manage Patient IDs Simulators New Simulator Logs									
Queries & Retrieves									
FindDocuments FindDocuments (All Parameters) FindDocumentsByReftd MPO-FindDocuments GetPolarents GetPolders GetFolders GetFolders GetFolderAndContents GetAll RetrievaDocuments RetrievalmagingDocumentSet	r								
Submit									
XDS Register XDS Provide & Register XDR Provide & Register									
Other Tools									
Repository Listing Connectathon Tools									
Testing									
Conformance Tests									

Your Sequoia Project Test Manager will create all the systems and simulators you will need. Select the system you want to test by clicking the blue Test Context button on the right and selecting the system from the list.

×	Environment: rce <u>Codes</u>	Test Session: demo01 Delete abc123	Change Exit Create New	You are not signed-in. <u>Sign In.</u>
Toolkit			-	
Home Toolkit configuration &	X ConfTests	imesConformance test context		
Manage Patient IDs Simulators New Simulator Logs		Selection of codes and certificates Environment: rce	Tests	
Queries & Retrieves	Overview Actor to test	A Test Session holds the test results for a single system under test. Clear Test Session		1 About this Tool Environment: rce TestSession; demo01
Find Documents (All Parameters) FindDocumentsByRefld MPQ-FindDocuments GetDocuments	Tests are organized as: Actor Profile Option. Select SUT as Initiating QHIN	demo01 DEMO-01 GazelleSts demo01_community1		SUT: DEMO-01
GetFolders GetFolders GetFolderAndContents	<ul> <li>Document Query Scenario</li> <li>Required</li> <li>Optional</li> </ul>	System under test for this Test Session		
GetSubmissionSetAndContents GetAll RetrieveDocuments RetrieveImagingDocumentSet	Message Delivery Scenario     Required     Conditional	allRepositories demo01community1 demo01community2		
Submit				
XDS Register XDS Provide & Register XDR Provide & Register	Legend: Not Run	System under test Assign System for Test Session		
Other Tools	Failures			
Repository Listing Connectathon Tools				
Testing				
Conformance Tests				

Select "Conformance Tests from the menu on the right. This will bring up the groups of tests available. Tests are categorized as being: for an Initiating or Responding Gateway; for the



Document Query (QD) Document Retrieve (RD) or Message Delivery (MD) scenarios; and as Required, Optional, or Conditional. Select the tests you want to run by clicking on the name





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#### 4.2 Responding Gateway Tests

Make sure the endpoints listed under System Under Test Configuration are correct. If you are doing the tests with TLS, make sure the SAML and TLS boxes are checked. You do not need to initialize the testing environment.

The first test listed, RG.Init, must be run first, and must be successful before any other Responding Gateway tests will work. This test sends a PD request to your system and retrieves your internal ID for the test patients, which it stores and uses to populate future the QD, RD, and MD tests.

Toolkit	Environment roe V Codes Test Session: demo03 Delete Change Exit Oreate New You are	not signed-in. <u>Sign In.</u>
Home Toolkit configuration &	X Conflests	
System Configurations Manage Patient IDs Simulators New Simulator Logs	Conformance Tests	
Queries & Retrieves	Option Required Conditional Optional	Test Context Environment: rce TestSession: demo03
FindDocuments Find Documents (All Parameters) FindDocumentsByRefld	Testing Environment	SUT: DEMO-03
SetDocuments SetRelated	The system under test is a Responding Gateway. The tests in this area of the conformance tool make no assumptions about the implementation behind the system under test. If you want to test using the traditional assumptions about Repository/Registry backing, you should select the conformance tests for the traditional Responding Gateway actor (and not this one).	
FindFolders SetFolders	You will initialize your Responding Gateway and corresponding backend systems with required test data. This XDS Toolkit will provide no transactions to supply that data (ADT messages, documents).	
3etFolderAndContents 3etSubmissionSetAndContents	Select the Responding Gateway to be tested from the Test Context located to the right. If your Responding Gateway is not listed, you will need to add configuration as a new test site.	
SetAll RetrieveDocuments RetrieveImagingDocumentSet	Each test will send Cross Gateway Query and/or Retrieve transactions to your Responding Gateway. The Supporting Environment Configuration has one test: RG.Int. The content/function of RG.Int depends on the Responding Gateway tests that the expendence of the International Supporting Environment Configuration has one test: RG.Int. The content/function of RG.Int depends on the Responding Gateway tests that the expendence of the International Support on Support	
Submit	Refer - Intellize will delete all selections and Patient US and Recease them.	
XDS Register XDS Provide & Register XDR Provide & Register		
Other Tools		
Repository Listing Connectathon Tools	System Under Test Configuration	
Testing	DEMO(-03 (System Conferential)	
Conformance Tests		
	Enginetia initi unit Cosa-Community (ky): https://subscription.sequoiaproject.org:14430/sequoia-qtf-fisim/demo03_rg/tg/xcq Cross-Community (ketrieve Cross-Community (ketrieve Pp://subscription.sequoiaproject.org:8780/sequoia-qtf-fisim/demo03_rg/tg/xcr	
	XCPD Ouevy http://wildation.aequ/aproject.org/PAMSimulator-ajb/RespondingGateway_Service/RespondingGateway_PortType?vst/ homeCommunityd hum cite1:14657334.11	
	Supporting Environment Configuration	
	System: None	
(	Utilities run to initialize environment	

Scroll down to the bottom of the page to see the test list. You can click on the arrow beside the Test Group name to run all of the tests in the group, or you can click on the individual tests to run just that one.

For Responding Gateway tests, the running test will send messages to your system and wait for a response. Tests that have passed will turn blue, failed test will be red.



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Toolkit	Environment[ree v] <sub>Codes</sub> Test Session: demo03 Delete Change Exit Create New	You ar	e not signed-in. <u>Sign In.</u>
Home Toolkit configuration @ System Configurations Manage Patient IDs Simulators New Simulator Logs	Conformance Tests		
Queries & Retrieves	Supporting Environment Configuration		Test Context Environment: rce
FindDocuments	System: None		SUT: DEMO-03
Find Documents (All Parameters) FindDocuments PuRofid	Callest fun to indialize environment Tests: RG [nit - RG [nit + 2G] [nit + 2G] [nit + 2G] [0] [1 + 2G]		
MPQ-FindDocuments GetDocuments			
GetRelated FindFolders	Responding Gateway X - Required Tests 🔞 🔿	▲ 顶	
GetFolders GetFolderAndContents			
GetSubmissionSetAndContents GetAll	Tests         12           Surressen         P		
RetrieveDocuments RetrieveImagingDocumentSet	Falures k		
Submit	No Run: 9		
XDS Register XDS Provide & Register	Test: RG.Basic.PatientDiscovery - XCPD Find Patient QTFTEST-004 11:21 May 02, 2023 🕑	٩	
XDR Provide & Register	Test: RG.Query.FindDocuments.Minimal - Responding Gateway responds to minimal FindDocuments queries 11:21 May 02, 2023 ()	٩	
Other Tools	Test: RG.Basic.Retrieve - Gateway responds to request to retrieve single document 11:21 May 02, 2023 (1)	۵ 🗴 🗇 د	
Repository Listing Connectathon Tools	Test: RG.DocQuery1_secondpurposeofuse.TREATMENT - Test for Purpose of Use: TREATMENT ③	L	
Testing	Test: RG.DocQuery1 secondpurposeofuse.REQUEST - Test for Purpose of Use: REQUEST ③	L	
Conformance Tests	Test: RG.DocQuery1 secondpurposeofuse.COVERAGE - Test for Purpose of Use: COVERAGE ③	L	
	Test: RG.DocQuery1 secondpurposeofuse.OPERATIONS - Test for Purpose of Use: OPERATIONS ()	L	
	Test: RG DocQuery1 secondourposeofuse PAYMENT - Test for Purpose of Use: PAYMENT ()	L	
	Test: RG DocQuery1 secondourposeofuse PUBLICHEALTH - Test for Purpose of Use: PUBLICHEALTH ()		
	Test: RG DocQuery/2 second unroseofuse LEGACY-TREATMENT - Test for Purpose of Use: Legacy Value for Treatment ()		
	The the book and the book and the		
	Test: RG DocQuery2 second purpose of use REASSURANCE - Test for Purpose of Use: Undefined Coded Value for Treatment ()	L	
	Test: RG.DocQuery2_secondpurposeofuse.REASSURANCE - Test for Purpose of Use: Undefined Coded Value for Treatment ()	L	

Clicking on the test and then the test step name will show you the results of the test. To see the logs, click on the eye symbol to bring up the Results Inspector tab. Clicking on the garbage can symbol will erase the test results and let you try again.

•	Environment: rca 🛩 Codes	Test Session: dem	03 Delete	Change Exit Cr	ate New			fou are not signed-in. <u>Sign In.</u>		
Toolkit										
Home	X ConfTests									
Toolkit configuration &										
Manage Patient IDs				Conf	ormance Tests					
New Simulator Logs			0011121100702.2022							
Queries & Retrieves	Test: RG.Query.FindDocuments.M	Inimal - Responding Gateway	responds to minimal	FindDocuments quer	es 11:21 May 02, 2023 🕑			Environment: roe TestSession: demo03		
FindDocuments	Test: RG.Basic.Retrieve - Gateway	y responds to request to retrie	ve single document 11:	21 May 02, 2023 🕑			( ⊚▲ 🗇	L SYT: DEMO-03		
Parameters)								- /		
FindDocumentsByRefid MPQ-FindDocuments	This test relies on the FindDocuments response recor	ided in RG.Query, PindDocuments, Minimal, You	vill need to successfully complete Ho	3. Query Pindbocuments Minimal b	Hore running this test.			_		
GetDocuments GetBrinted	Test tool sends a RetrieveDocumentSetRequest trans	Jaction with these parameters:								
FindFolders	<ul> <li>Home Community ID: Value returned in RG.Qu</li> <li>Responsitory Unique ID: Value returned in RG.Q</li> </ul>	Jery FindDocuments minimal test Query FindDocuments minimal test								
GetFolders GetFolderAndContents	<ul> <li>Document Unique ID: Value returned in RG.Qu</li> </ul>	aery. FindDocuments. minimal test								
GetSubmissionSetAndContents	The Responding Gateway needs to return a response	a with the document requested.								
RetrieveDocuments	Assertions test the following:									
reenevermagingDocumentSet	1. WSA:Action == unr.ihe.iti:2007:CrossGateway	Retrieve								
Submit	<ol> <li>WSA:RelatesTo == request message WSA:me</li> <li>RegistryResponse@status == um.oasis:name</li> </ol>	vssageID st								
XDS Register	c:ebxmi-regrep:ResponseStatusType:Success	í l								
XDS Provide & Register	5. In the returned DocumentResponse									
Other Tools	<ol> <li>Status == unceasis names to:ebxml-reg</li> <li>HomeCommunityld matches HomeCom</li> </ol>	Jrep:StatuaType:Approved nmunityld in original request								
other room	3. RepositoryUniqueId matches Repositor	yUniqueld in original request								
Repository Listing Connectathon Tools	<ol> <li>Documentorniqueto matches Documento</li> </ol>	uniqueio in original request								
Testing	IIIView Interaction Sequence									
lesting	Section: document_01 11:21 May 02, 2023	D								
Conformance Tests	Please see Readme file for overall test as this test	has only a single step.								
	Without Testalog									
	Internal Error: Retrieve Error: endpoint was: No en	dpoint configured for SOAP action um/he/iti:200	7:CrossGatewayRetrieve Exception	XdsInternalException gov.nist.tool	it xdsexception client XdsInternalException: Re	strieve Error: endpoint was: No endpoint configured for	SOAP action um:he:iti:2007:CrossGatewayRetrieve			
	Step: retrieve_one_document									
	⊞View Metadata									
	Goare:									
	Entroint									
	Expected Status: Success									
	Errors:				-					
	message									
	Internal Error: Refine Error: endpoint configured for SOAP action uncherit/2007-StrassEatensyRetrieve									
	Exapplicit submitting Exaption on virial totals virtualized in virtualized and the second sec									
	Leo Dacada									
	Name UseAs 1	Value Test	Pastian	Stan.						
	Scherument/01 uniquelds Scherument/	12 42 202211/02024910 68 PG Over- 5-40	oection	otep						
	socumentori_uniquelds_sdocuids1_	revold 1 1 4587334 1 1 PG Over-EndPres	menta Annimari Uzia-Neat-class-appro mente Minimal (12a-Jaaf-class-appro	wed uze-war-cass-approved						
	Sdocument001_nenositoryS Srepositoryud5 1	1 1 4567332 1 15 RG Query FindDog	ments Minimal 02a/eaf.class.appro	ved 02a.leaf.class.anoroved						
	Sdocument001 uniqueIdS SdocuidS 1	1.2.42.20221102024910.68 RG.Query FindDog	ments Minimal 02a-leaf-class-appro	ved 02a-leaf-class-approved						
	\$document001_home\$ Shome\$ u	amoid:1.1.4567334.1.1 RG.Quent/FindDoo	ments.Minimal 02a-leaf-class-appro	ved 02a-leaf-class-approved						
	\$document001_repository\$ \$repositoryuid\$ 1	1.1.4567332.1.15 RG.Query.FindDoc	ments.Minimal 02a-leaf-class-appro	ved 02a-leaf-class-approved						
		· · · · · · · · · · · · · · · · · · ·								

In the Results Inspector you can view the request and response messages for each test step, as well as full logs and error messages.



Toolkit Home	Environmen Codes X Home	X ConfTests	Test connect  Session: X Resultinspector	Add	Delete Test Session:	connect	Delete	Change	Exit	Create New	You are signe		
Toolkit configuration System Configurations Manage Patient IDs Simulators New Simulator Logs Queries & Retrieves	Inspecto Advanced Opt	or ions)		rTactStan (d≠*DD* status)≠Ea						Ctra			
FindDocuments FindDocuments (All Parameters) Find Documents (All Phy-FindDocuments Geritolaters) Geritolaters	History     History     QD-RD-P     Ogs     stat     enc     req     res     enc     req     res     enc     full     assert	Contents &-0000.0-2011 (T tpoint uest fail tpointe uest header ponse header ponse header 275 log logs	ue Oct 30 20:30:41 CET 201	ExperiedStatus=Success Sucparticipation step=*PD UseSequoiateader/ Langendeutsata-Falser, Ellipsi Comparison and Comparison and Comparison Comparison and Comparison and Comparison and Comparison Comparison and Comparison and	Expected Status> >rarseMetadata> s4/external_cache/ dataFileo> MECT actor config i MECT actor config i MeCT actor config i lent XdsintermaiExco actions. BasicTrans: actions. BasicTrans: actions. BasicTrans: actions. BasicTrans: actions. BasicTrans: Setter LonArd BasicTrans: Setter LonArd Setter LonArd Manager Util serviceManager. Util serviceManager. Xdsi . TookillServiceimpl	Ienvironment/3 transaction xc is default/Testi eption: No enco CONNECT 	Sequoia/testiktsideft pd and XDS version ing_Harness_Tangg dpoint specified for 1 at asicTransaction jaw awa-466 jat awa-269 j	ulitRests/QD-RD-R-0000.0- Unknown and secure = false on CONNECT Exception XdsIntern farnaaction xcpd and XDS version 828) at 828) at 140 140 140 140 140 140 140 140	site alExcept Unknow	ion			
Repository Listing Connectathon Tools Testing Conformance Tests													

When all of the tests you need to run are colored blue, you can notify your Test Manager that your tests are ready to be evaluated. Remember to also record your ATNA audit log for your tests. Submit results to your Test Manager by email at <u>ahintesting@sequoiaproject.org</u>.

## 4.3 Initiating Gateway Tests

Take note of the endpoints and Home Community ID listed under Supporting Environment Configuration. These are the endpoints you will send your test messages to. If you are doing the tests with TLS, make sure the SAML and TLS boxes are checked. You do not need to initialize the testing environment.



ĸ	Environment roe V Codes	Test Session: demo03 Delate Change Exit Create New		You are not signed-in. Sign In.						
Toolkit										
Home	X ConfTests									
Toolkit configuration # System Configurations										
Manage Patient IDs Simulators		Conformance Tests								
New Simulator Logs		Repository		<ul> <li>Test Context</li> </ul>						
Queries & Retrieves				Environment: roe TestSession: demo03						
FindDocuments Find Documents (All Parameters) FindDocumentsByRefld	The system under test is an Initiating Patient Identity Feed transactions to the	lateway. Unlike the stock XDS test structure, this test environment does NOT assume that the Gateway under test is triggered by IHE transactions. It is up to the person who own e system under test. Test patients are documented externally or in README tests below.	the Initiating Gateway under test to trigger the transactions required by the test cases. This test environment does not see	nd						
MPQ-FindDocuments GetDocuments GetRelated	Reset - Initialize will delete all supp	orting simulators and Patient IDs and recreate them.								
FindFolders GetFolders	SAM									
GetFolderAndContents GetSubmissionSetAndContents										
GetA1 Betring December	Initialize Testing Environment									
RetrievelmagingDocumentSet				- 1						
Submit	Initialization complete									
XDS Register XDS Provide & Register XDR Provide & Register	System Under Test Con	figuration								
Other Tools	DEMO-03 [System Configuration]									
Repository Listing	Endpoints and IDs Cross-Community Query https://au	Secure Non-secure Non-secure and Literation of Chimological Action of Secure Action of Chimological Action of Chim	not name							
Connectation Tools	Cross-Community Retrieve	http://subscription.sequolaproject.org/8780/sequola-q#-1/sim/dem	1003_rg/g/scr							
lesting	homeCommunityId umcoid:1.	dation.sequoiaproject.org/PAMSimutator-ejb/RespondingGateway_Service/RespondingGateway_PortType?wsdl 1.4567334.1.1								
Conformance Teets										
	Supporting Environment Comiguration									
	Simulator: demo03_community1 (inclustor Configuration ) (inclustor Loo)									
	Endpoints and IDs	Secure Non-secure								
	Cross-Community Query Cross-Community Retrieve	https://validation.sequolaproject.org:14430/roe/sim/demo03_community1/rg/koq http://validation.sequolaproject.org/8780/roe/sim/demo03_community1/rg/koq http://validation.sequolaproject.org/8780/roe/sim/demo03_community1/rg/kor http://validation.sequolaproject.org/8780/roe/sim/demo03_community1/rg/kor								
	Cross-Community Document Provide	https://vaildation.sequolaproject.org.14430/roe/sim/demo03_community1/rg/kodrp http://vaildation.sequolaproject.org.8780/roe/sim/demo03_community1/rg/kodrp								
	XCRMU	https://vaidation.sequoisproject.org/8780/roe/sim/demo03_community1/rg/scrmu http://vaidation.sequoisproject.org/8780/roe/sim/demo03_community1/rg/scrmu								
	Register Register On Demand Data ment Entr	https://waldation.sequolaproject.org:14430/roce/smidemo03_community1/regit/b http://waldation.sequolaproject.org.0780/roe/smidemo03_community1/regit/b http://waldation.sequolaproject.org.0780/roe/								
	Stored Query	http://watation.sequolaproject.org.freedomsimilaemod3_community/inegroup integroups applications.equolaproject.org.8760/ros/sim/demod3_community/inegroup								
	Multi-Patient Query	https://vaiidation.sequoisproject.org.14430/roe/sim/demo03_community1/reg/mpq http://vaiidation.sequoisproject.org.8780/rce/sim/demo03_community1/reg/mpq								
	Update	https://validation.sequolaproject.org.14430/roe/sim/demo03_community1/reg/update.http://validation.sequolaproject.org.8780/roe/sim/demo03_community1/reg/update								
	RMU Remove Meteolete	https://waidation.sequoisproject.org.14430/roe/smidemo03_community1/regimu http://waidation.sequoisproject.org.8760/roe/smidemo03_community1/regimu								
	Provide and Register	http://widation.sequaiperciect.org/14430/rookimidemo03_community/lives/zrb http://widation.sequaiperciect.org/3780/rookimidemo03_community/lives/zrb http://widation.sequaiperciect.org/3780/rookimidemo03_community/lives/zrb								
	Remove Documents	https://validation.sequolaproject.org.14430/rce/sim/demo03_community1/rep/rd http://validation.sequolaproject.org.8780/rce/sim/demo03_community1/rep/rd								
	Repository (1.2.34.567.10.101)	https://validation.sequoiaproject.org:14430/roe/simi/demo03_community1/rep/ret http://validation.sequoiaproject.org:8780/roe/simi/demo03_community1/rep/ret								
	homeCommunityId	umoid:12.34.567.8.1								
	Simulator: demo03commu	nity2 (Simulator Configuration) (Simulator Loo)								
	Endpoints and IDs	Secure Non-secure								
	Cross-Community Query	https://validation.sequoisproject.org.14430/roe/sim/demo03_community2/rg/koq http://validation.sequoisproject.org.8780/roe/sim/demo03_community2/rg/koq								
	Cross-Community Retrieve	https://validation.sequolaproject.org:14430/roe/sim/demo03_community2/gj/xcr http://validation.sequolaproject.org:1760/roe/sim/demo03_community2/gj/xcr								
	Cross-Community Document Provide	https://waldation.sequoisproject.org:14430/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_ http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communit/2/rg/s/cdrp_http://waldation.sequoisproject.org.8780/roe/sim/demo03_communitsproject.org.8780/roe/sim/demo03_communitsproject.org.8780/roe/sim/demo03_communitsproject.org.8780/roe/sim/demo03_communitsproject.org.8780/roe/sim/demo03_communitsproject.org.8780/roe/sim/demo03_communitspr								
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The first tests listed, IG.Init.Community1 and IG.Init.Community2, must be run first, and must be successful before other Initiating Gateway tests will work. These tests submit documents to the simulator repositories for you to query.

·	Environment roe	Test Session: demo03 Delete	Channe Fylt Create New	You are	not signed-in. Sigr		
Toolkit			and and and				
Home Toolkit configuration 8 System Configurations Manage Patient IDs Simulators	Conformance Tests						
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XDR Provide & Register	Endpoints and IDs	Secure	Non-secure				
Other Tools	Cross-Community Query	https://validation.sequolaproject.org:14430/rce/sim/demc03community2/rg/xcq	http://validation.sequoiaproject.org.8780/rce/sim/demo03community2/rg/kcq				
Repository Listing Connectathon Tools	Cross-Community Retrieve Cross-Community Document Provis XCRMU Register	https://validation.sequolaproject.org:14430/rea/sim/demod3_community2/trg/scr fei https://validation.sequolaproject.org:14430/rea/sim/demod3_community2/trg/scd/p https://validation.sequolaproject.org:14430/rea/sim/demod3_community2/reg/tb https://validation.sequolaproject.org:14430/rea/sim/demod3_community2/reg/tb	http://walidation.sequolaproject.org/8780/roek/im/demod3_community2/tp/src/ http://validation.sequolaproject.org/8780/roek/im/demod3_community2/tp/scdrp http://validation.sequolaproject.org/8780/roek/im/demod3_community2/tp/scrmu http://validation.sequolaproject.org/8780/roek/im/demod3_community2/tpg/tc http://validation.sequolaproject.org/8780/roek/im/demod3_community2/tpg/tc				
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To run the Initiating Gateway tests, send the appropriate message from your system to the simulator endpoints listed. When the simulator has sent back a response run the test in the tool by clicking the arrow by the test name. The tool will search the simulator logs for a transaction



that matches the test requirements. When it finds an appropriate response, the test will be marked "passed".





## 5 FINISHING UP

When you are finished testing and are ready to have your tests validated, send an email with the permanent links for all the testing completed and all of your ATNA logs to be evaluated by email your Sequoia Project Test Manager to <u>ghintesting@sequoiaproject.org</u>.

Remember to log out of all of the systems and shut down all of the windows that have been opened!

Our standard business workflow is to return your report within 5 business days of your submission of testing results. Please ensure someone from your organization is available to redo any failed or partially verified tests.

